

CLAIMS

I CLAIM:

1. A floating self-propelled cleaning device for water surfaces comprising:
 - a) a floating body;
 - 5 b) at least one net-shaped collecting container connected to said floating body and having an inlet;
 - c) means for causing said floating body to rotate so that the inlet of said container sweeps a portion of the water surface;
 - d) means for causing a shifting movement to said floating body that serves,
10 together with said rotation, to move the floating body on the water surface; and
 - e) at least one energy source for said means for causing a rotation to the floating body.
2. The device, according to claim 1, wherein said means for causing said floating body to rotate comprises at least one jet means suitable for generating a thrust that causes
15 the rotation of said floating body about an instantaneous centre of rotation.
3. The device, according to claim 1, wherein said floating body comprises a central body and two side floating elements connected to said central body from opposite sides.
4. The device, according to claim 1, wherein said means for causing a shifting movement comprises at least a distribution element movable with respect to said floating body suitable for
20 cooperating with said or each propelling means for generating intermittent thrusts.
5. The device, according to claim 1, wherein said means for causing a rotation comprises a first and a second propelling means arranged at said side floating elements and opposite to each other, said means for causing a rotation comprising two water jets forming a propelling couple with respect to said centre of rotation.
- 25 6. The device, according to claim 2, wherein said or each propelling means is in a position distanced from the centre of rotation.

7. The device, according to claim 1, wherein said means for causing a shifting movement comprises at least a distribution element movable with respect to said floating body suitable for operating said or each propelling means for generating intermittent thrusts.
- 5 8. The device, according to claim 7, wherein said distribution element comprises a blade dipped in water associated to a distribution element selecting alternatively each propelling means
9. The device, according to claim 8, wherein said distribution element is a cam disk that operates alternatively each propelling means by a switch.
- 10 10. The device, according to claim 7, wherein said distribution element is a two-way valve arranged in a central chamber of a deflecting element that directs alternatively a water flow to two outlets having apertures oriented in opposite directions in order to generate a thrust in corresponding opposite directions.
11. The device, according to claim 1, wherein at least a feeler pawl is provided suitable
15 for blocking the delivery of energy to a corresponding propelling means when the device meets an obstacle.